



LUD5739-US SEQUENCE LISTING.txt

SEQUENCE LISTING

<110> VALMORI, Danlla
AYYOUB, Maha
PINILLA, Clemencia

<120> Isolated, SSX-2 and SSX-2 Related Peptides Useful as HLA Binders
and CTL Epitopes, and Uses Thereof

<130> LUD 5739 PCT

<150> PCT/US2003/023306

<151> 2003-07-23

<150> 60/400,076

<151> 2002-07-31

<160> 116

<170> PatentIn version 3.2

<210> 1

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<213> Artificial Sequence

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<223> Ala substituted variant of a human sequence

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Ala Ala Ala Pro Lys Ile Phe Tyr Ala
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LUD5739-US SEQUENCE LISTING.txt

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LUD5739-US SEQUENCE LISTING.txt

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Tyr Met Asp Gly Thr Met Ser Gln Val
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<213> Homo sapiens

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Met Leu Leu Ala Val Leu Tyr Cys Leu
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LUD5739-US SEQUENCE LISTING.txt

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Glu Leu Ala Gly Ile Gly Ile Leu Thr Val
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Ile Met Pro Lys Ala Gly Leu Leu Ile
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<210> 29
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<400> 29

Phe Leu Trp Gly Pro Arg Ala Leu Val
1 5

<210> 30
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<400> 30

Val Arg Ile Gly His Leu Tyr Ile Leu
1 5

<210> 31
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<400> 31

Tyr Leu Gln Leu Val Phe Gly Ile Glu Val
1 5 10

<210> 32
<211> 9
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<213> Homo sapiens

<400> 32

Phe Leu Trp Gly Pro Arg Ala Leu Val
1 5

LUD5739-US SEQUENCE LISTING.txt

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<220>
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<400> 33

Val Leu Pro Asp Val Phe Ile Arg Cys Xaa
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<400> 34

Gly Leu Tyr Asp Gly Met Glu His Leu
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<210> 35
 <211> 10
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 <213> Homo sapiens

<400> 35

Met Glu Val Asp Pro Ile Gly His Leu Tyr
 1 5 10

<210> 36
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 36

Glu Val Asp Pro Ile Gly His Leu Tyr
 1 5

<210> 37
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 37

Ser Leu Leu Met Trp Ile Thr Gln Cys
 1 5

<210> 38
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LUD5739-US SEQUENCE LISTING.txt

<212> PRT
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<400> 38

Ile Met Pro Lys Ala Gly Leu Leu Ile
1 5

<210> 39
<211> 9
<212> PRT
<213> Homo sapiens

<400> 39

Glu Val Asp Pro Ile Gly His Leu Tyr
1 5

<210> 40
<211> 10
<212> PRT
<213> Homo sapiens

<400> 40

Gly Val Tyr Asp Gly Arg Glu His Thr Val
1 5 10

<210> 41
<211> 9
<212> PRT
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<400> 41

Glu Ala Asp Pro Thr Gly His Ser Tyr
1 5

<210> 42
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<400> 42

Ser Glu Ile Trp Arg Asp Ile Asp Phe
1 5

<210> 43
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<400> 43

Leu Pro Ser Ser Ala Asp Val Glu Phe
1 5

LUD5739-US SEQUENCE LISTING.txt

<210> 44
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<400> 44

Ser Ala Tyr Gly Glu Pro Arg Lys Leu
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<210> 45
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<400> 45

Tyr Arg Pro Arg Pro Arg Arg Tyr
 1 5

<210> 46
 <211> 9
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<400> 46

Leu Ala Met Pro Phe Ala Thr Pro Met
 1 5

<210> 47
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<400> 47

Ala Arg Gly Pro Glu Ser Arg Leu Leu
 1 5

<210> 48
 <211> 9
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<400> 48

Tyr Tyr Trp Pro Arg Pro Arg Arg Tyr
 1 5

<210> 49
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<400> 49

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Ala Ala Arg Ala Val Phe Leu Ala Leu
1 5

<210> 50
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<212> PRT
<213> Homo sapiens

<400> 50

Thr Gln His Phe Val Gln Glu Asn Tyr Leu Glu Tyr
1 5 10

<210> 51
<211> 11
<212> PRT
<213> Homo sapiens

<400> 51

Ser Leu Leu Met Trp Ile Thr Gln Cys Phe Leu
1 5 10

<210> 52
<211> 14
<212> PRT
<213> Homo sapiens

<400> 52

Ala Glu Leu Val His Phe Leu Leu Leu Lys Tyr Arg Ala Arg
1 5 10

<210> 53
<211> 14
<212> PRT
<213> Homo sapiens

<400> 53

Leu Leu Lys Tyr Arg Ala Arg Glu Pro Val Thr Lys Ala Glu
1 5 10

<210> 54
<211> 14
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<400> 54

Ala Glu Leu Val His Phe Leu Leu Leu Lys Tyr Arg Ala Arg
1 5 10

<210> 55
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<400> 55

Glu Tyr Val Ile Lys Val Ser Ala Arg Val Arg Phe
1 5 10

<210> 56

<211> 14

<212> PRT

<213> Homo sapiens

<400> 56

Leu Leu Lys Tyr Arg Ala Arg Glu Pro Val Thr Lys Ala Glu
1 5 10

<210> 57

<211> 20

<212> PRT

<213> Homo sapiens

<400> 57

Pro Gly Val Leu Leu Lys Glu Phe Thr Val Ser Gly Asn Ile Leu Thr
1 5 10 15
Ile Arg Leu Thr
20

<210> 58

<211> 18

<212> PRT

<213> Homo sapiens

<400> 58

Ala Ala Asp His Arg Gln Leu Gln Leu Ser Ile Ser Ser Cys Leu Gln
1 5 10 15
Gln Leu

<210> 59

<211> 9

<212> PRT

<213> Artificial

<220>

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criteria in is satisfied: Lys at position 5; Phe at position 7; or
Tyr at position 8

<400> 59

Ala Ala Ala Pro Lys Gln Phe Leu Ala
1 5

<210> 60

<211> 9

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LUD5739-US SEQUENCE LISTING.txt

<213> Artificial

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<400> 60

Ala Ala Ser Pro Lys Ser Phe Thr Leu
1 5

<210> 61

<211> 9

<212> PRT

<213> Artificial

<220>

<223> Peptides with nine amino acids wherein two of the following criteria in is satisfied: Lys at position 5; Phe at position 7; or Tyr at position 8

<400> 61

Val Ser Ala Pro Lys Val Phe Gln Ala
1 5

<210> 62

<211> 9

<212> PRT

<213> Artificial

<220>

<223> Peptides with nine amino acids wherein two of the following criteria in is satisfied: Lys at position 5; Phe at position 7; or Tyr at position 8

<400> 62

Ile Ala Ser Pro Lys Ala Thr Tyr Val
1 5

<210> 63

<211> 9

<212> PRT

<213> Artificial

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<223> Peptides with nine amino acids wherein two of the following criteria in is satisfied: Lys at position 5; Phe at position 7; or Tyr at position 8

<400> 63

Val Ser Ala Pro Lys Ile Phe Gln Ala
1 5

<210> 64

<211> 9

LUD5739-US SEQUENCE LISTING.txt

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<220>
<223> Peptides with nine amino acids wherein two of the following
criteria in is satisfied: Lys at position 5; Phe at position 7; or
Tyr at position 8

<400> 64

Asn Ser Leu Pro Lys Val Ala Tyr Ala
1 5

<210> 65
<211> 9
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criteria in is satisfied: Lys at position 5; Phe at position 7; or
Tyr at position 8

<400> 65

Ala Ser Leu Pro Lys Val Ser Tyr Val
1 5

<210> 66
<211> 9
<212> PRT
<213> Artificial

<220>
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criteria in is satisfied: Lys at position 5; Phe at position 7; or
Tyr at position 8

<400> 66

Lys Ala Glu Pro Lys Ala Pro Tyr Ala
1 5

<210> 67
<211> 9
<212> PRT
<213> Artificial

<220>
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criteria in is satisfied: Lys at position 5; Phe at position 7; or
Tyr at position 8

<400> 67

His Ser Leu Pro Lys Val Ser Tyr Ala
1 5

<210> 68

LUD5739-US SEQUENCE LISTING.txt

<211> 9
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<213> Artificial

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<223> Peptides with nine amino acids wherein two of the following
criteria in is satisfied: Lys at position 5; Phe at position 7; or
Tyr at position 8

<400> 68

Thr Ala Ser Pro Lys Glu Phe Tyr Ala
1 5

<210> 69
<211> 9
<212> PRT
<213> Artificial

<220>
<223> Peptides with nine amino acids wherein two of the following
criteria in is satisfied: Lys at position 5; Phe at position 7; or
Tyr at position 8

<400> 69

Ala Ser Val Pro Lys Glu Leu Tyr Leu
1 5

<210> 70
<211> 9
<212> PRT
<213> Artificial

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criteria in is satisfied: Lys at position 5; Phe at position 7; or
Tyr at position 8

<400> 70

Ser Pro Asp Pro Lys Ile Cys Tyr Val
1 5

<210> 71
<211> 9
<212> PRT
<213> Artificial

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<223> Peptides with nine amino acids wherein two of the following
criteria in is satisfied: Lys at position 5; Phe at position 7; or
Tyr at position 8

<400> 71

Val Ala Glu Pro Lys Glu Ser Tyr Val
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<210> 72
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 <223> Peptides with nine amino acids wherein two of the following
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 Tyr at position 8

<400> 72

Ile Ser Ala Pro Lys Ile Phe Arg Val
 1 5

<210> 73
 <211> 9
 <212> PRT
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 Tyr at position 8

<400> 73

Ala Val Tyr Pro Lys Ile Phe Tyr Val
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<210> 74
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 Tyr at position 8

<400> 74

Lys Ala Ser Glu Lys Ile Ile Tyr Val
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<210> 75
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 Tyr at position 8

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Val Gln Asp Pro Lys Val Thr Tyr Leu
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LUD5739-US SEQUENCE LISTING.txt

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 Tyr at position 8

<400> 76

Cys Pro Val Pro Lys Ile Phe Tyr Val
 1 5

<210> 77
 <211> 9
 <212> PRT
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 <223> Peptides with nine amino acids wherein two of the following
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 Tyr at position 8

<400> 77

Phe Ala Lys Pro Lys Ile Thr Tyr Val
 1 5

<210> 78
 <211> 9
 <212> PRT
 <213> Artificial

<220>
 <223> Peptides with nine amino acids wherein two of the following
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 Tyr at position 8

<400> 78

Gln Thr Pro Pro Lys Ile Asp Tyr Leu
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<210> 79
 <211> 9
 <212> PRT
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 <223> Peptides with nine amino acids wherein two of the following
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 Tyr at position 8

<400> 79

Leu Arg Ser Pro Lys Leu Phe Tyr Ala
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LUD5739-US SEQUENCE LISTING.txt

<210> 80
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<220>
 <223> Peptides with nine amino acids wherein two of the following
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 Tyr at position 8

<400> 80

Lys Tyr Ser Glu Lys Ile Ser Tyr Val
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<210> 81
 <211> 9
 <212> PRT
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<220>
 <223> Peptides with nine amino acids wherein two of the following
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 Tyr at position 8

<400> 81

Glu Gln Lys Pro Lys Asp Phe Tyr Ala
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<210> 82
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 Tyr at position 8

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Arg Thr Thr Pro Lys Asp Phe Tyr Val
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<210> 83
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 Tyr at position 8

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Arg Ala Asp Pro Lys His Lys Tyr Leu

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1

5

<210> 84

<211> 9

<212> PRT

<213> Artificial

<220>

<223> Peptides with nine amino acids wherein two of the following
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Tyr at position 8

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Lys Arg Gly Trp Lys Thr Phe Tyr Ala
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<210> 85

<211> 9

<212> PRT

<213> Artificial

<220>

<223> Peptides with nine amino acids wherein two of the following
criteria in is satisfied: Lys at position 5; Phe at position 7; or
Tyr at position 8

<400> 85

Thr Ser Ser Trp Lys Lys Phe Tyr Leu
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<210> 86

<211> 9

<212> PRT

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<223> Peptides with nine amino acids wherein two of the following
criteria in is satisfied: Lys at position 5; Phe at position 7; or
Tyr at position 8

<400> 86

Leu Ser Arg Pro Lys Arg Phe Tyr Leu
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<210> 87

<211> 9

<212> PRT

<213> Artificial

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<223> Peptides with nine amino acids wherein two of the following
criteria in is satisfied: Lys at position 5; Phe at position 7; or
Tyr at position 8

<400> 87

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Asn Thr Tyr Pro Lys Gly Phe Tyr Cys
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<210> 88
<211> 9
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<220>
<223> Peptides with nine amino acids wherein two of the following
criteria in is satisfied: Lys at position 5; Phe at position 7; or
Tyr at position 8

<400> 88

Ser Lys Leu Pro Lys Asp Phe Tyr Asp
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<210> 89
<211> 9
<212> PRT
<213> Artificial

<220>
<223> Peptides with nine amino acids wherein two of the following
criteria in is satisfied: Lys at position 5; Phe at position 7; or
Tyr at position 8

<400> 89

Ala Leu Ser Pro Lys Glu Phe Tyr Glu
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<210> 90
<211> 9
<212> PRT
<213> Artificial

<220>
<223> Peptides with nine amino acids wherein two of the following
criteria in is satisfied: Lys at position 5; Phe at position 7; or
Tyr at position 8

<400> 90

Lys Val Asp Pro Lys Pro Phe Tyr Glu
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<210> 91
<211> 9
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<213> Artificial

<220>
<223> Peptides with nine amino acids wherein two of the following
criteria in is satisfied: Lys at position 5; Phe at position 7; or
Tyr at position 8

<400> 91

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Val Gly Ser Glu Lys Leu Phe Tyr Glu
1 5

<210> 92
<211> 9
<212> PRT
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<220>
<223> Peptides with nine amino acids wherein two of the following
criteria in is satisfied: Lys at position 5; Phe at position 7; or
Tyr at position 8

<400> 92

Leu Met Thr Pro Lys Gln Met Tyr Glu
1 5

<210> 93
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<213> Artificial

<220>
<223> Peptides with nine amino acids wherein two of the following
criteria in is satisfied: Lys at position 5; Phe at position 7; or
Tyr at position 8

<400> 93

Lys Asn Lys Pro Lys Met Asn Tyr Glu
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<210> 94
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<223> Peptides with nine amino acids wherein two of the following
criteria in is satisfied: Lys at position 5; Phe at position 7; or
Tyr at position 8

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Val Arg Gly Pro Lys Tyr Phe Tyr Gly
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<210> 95
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criteria in is satisfied: Lys at position 5; Phe at position 7; or
Tyr at position 8

LUD5739-US SEQUENCE LISTING.txt

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Ala Ala Thr Pro Lys Ile Phe Asn Gly
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<210> 96

<211> 9

<212> PRT

<213> Artificial

<220>

<223> Peptides with nine amino acids wherein two of the following
criteria in is satisfied: Lys at position 5; Phe at position 7; or
Tyr at position 8

<400> 96

Trp Gly Glu Pro Lys Thr Trp Tyr Gly
1 5

<210> 97

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<212> PRT

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<223> Peptides with nine amino acids wherein two of the following
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Tyr at position 8

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Val Gly Leu Lys Lys Ser Phe Tyr Gly
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<210> 98

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<212> PRT

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<223> Peptides with nine amino acids wherein two of the following
criteria in is satisfied: Lys at position 5; Phe at position 7; or
Tyr at position 8

<400> 98

Leu Ala Asn Pro Lys Glu Phe Tyr His
1 5

<210> 99

<211> 9

<212> PRT

<213> Artificial

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<223> Peptides with nine amino acids wherein two of the following
criteria in is satisfied: Lys at position 5; Phe at position 7; or
Tyr at position 8

LUD5739-US SEQUENCE LISTING.txt

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Ala Ser Ser Pro Lys Val Ala Tyr His
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<220>

<223> Peptides with nine amino acids wherein two of the following
criteria in is satisfied: Lys at position 5; Phe at position 7; or
Tyr at position 8

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Gln Tyr Thr Pro Lys Ala Lys Tyr His
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<210> 101

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<212> PRT

<213> Artificial

<220>

<223> Peptides with nine amino acids wherein two of the following
criteria in is satisfied: Lys at position 5; Phe at position 7; or
Tyr at position 8

<400> 101

Gln Thr Gly Pro Lys Ser Thr Tyr Ile
1 5

<210> 102

<211> 9

<212> PRT

<213> Artificial

<220>

<223> Peptides with nine amino acids wherein two of the following
criteria in is satisfied: Lys at position 5; Phe at position 7; or
Tyr at position 8

<400> 102

Ser Met Asp Pro Lys Arg Phe Tyr Lys
1 5

<210> 103

<211> 9

<212> PRT

<213> Artificial

<220>

<223> Peptides with nine amino acids wherein two of the following
criteria in is satisfied: Lys at position 5; Phe at position 7; or

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Tyr at position 8

<400> 103

Gly Ile Thr Pro Lys Gly Phe Tyr Lys
1 5

<210> 104

<211> 9

<212> PRT

<213> Artificial

<220>

<223> Peptides with nine amino acids wherein two of the following
criteria in is satisfied: Lys at position 5; Phe at position 7; or
Tyr at position 8

<400> 104

Arg Leu Val Pro Lys Leu Phe Tyr Lys
1 5

<210> 105

<211> 9

<212> PRT

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Tyr at position 8

<400> 105

Pro Ser Ser Pro Lys Val Thr Tyr Lys
1 5

<210> 106

<211> 9

<212> PRT

<213> Artificial

<220>

<223> Peptides with nine amino acids wherein two of the following
criteria in is satisfied: Lys at position 5; Phe at position 7; or
Tyr at position 8

<400> 106

Glu Asp Glu Tyr Lys Ala Phe Tyr Lys
1 5

<210> 107

<211> 9

<212> PRT

<213> Artificial

<220>

<223> Peptides with nine amino acids wherein two of the following

LUD5739-US SEQUENCE LISTING.txt

criteria in is satisfied: Lys at position 5; Phe at position 7; or
Tyr at position 8

<400> 107

Thr Leu Gly Pro Lys Ile Thr Tyr Gln
1 5

<210> 108

<211> 9

<212> PRT

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Tyr at position 8

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Glu Lys Glu Gly Lys Pro Phe Tyr Gln
1 5

<210> 109

<211> 9

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criteria in is satisfied: Lys at position 5; Phe at position 7; or
Tyr at position 8

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1 5

<210> 110

<211> 9

<212> PRT

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Tyr at position 8

<400> 110

Glu Ala Gly Pro Pro Ala Phe Tyr Arg
1 5

<210> 111

<211> 9

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LUD5739-US SEQUENCE LISTING.txt

<223> Peptides with nine amino acids wherein two of the following
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Tyr at position 8

<400> 111

Gln Ile Asn Pro Lys Cys Phe Tyr Thr
1 5

<210> 112

<211> 9

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Tyr at position 8

<400> 112

Asp Ile Pro Pro Lys Phe Phe Tyr Thr
1 5

<210> 113

<211> 9

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Tyr at position 8

<400> 113

Asp Asp Asn Pro Lys Thr Phe Tyr Trp
1 5

<210> 114

<211> 9

<212> PRT

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Tyr at position 8

<400> 114

Asp Ala Val Pro Lys Ile Glu Tyr Tyr
1 5

<210> 115

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Tyr at position 8

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1 5

<210> 116

<211> 9

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criteria in is satisfied: Lys at position 5; Phe at position 7; or
Tyr at position 8

<400> 116

Gly Ile Leu Gly Phe Val Phe Thr Leu
1 5